INTERNATIONAL SEARCH REPORT

International application No.

	PCT/JP	2005/000540
A. CLASSIFICATION OF SUBJECT MATTER Int.Cl ⁷ H01M2/10, B25F5/00		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by classification symbols) Int.Cl ⁷ H01M2/10, H01M10/50, B25F5/00		
Documentation searched other than minimum documentation to the extended Jitsuyo Shinan Koho 1922-1996 Ji Kokai Jitsuyo Shinan Koho 1971-2005 To	ent that such documents are included in t itsuyo Shinan Toroku Koho oroku Jitsuyo Shinan Koho	he fields searched 1996-2005 1994-2005
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category* Citation of document, with indication, where ap		Relevant to claim No.
A JP 2003-162987 A (Matsushita Industrial Co., Ltd.), 06 June, 2003 (06.06.03), Claim 1; Figs. 5, 6, 19, 20 & WO 2003/003485 A1 & US & EP 1403942 A1 & CN	2003/180582 A1	1-5
	6455186 B1	1-5
A JP 2001-143678 A (Makita Cor 25 May, 2001 (25.05.01), Claims 1 to 3; Figs. 1 to 8 & DE 010056370 A	rp.),	1-5
Further documents are listed in the continuation of Box C. Special categories of cited documents:		
"A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is	
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		
document published prior to the international filing date but later than the priority date claimed document member of the same pate		n documents, such combination ne art
Date of the actual completion of the international search 11 May, 2005 (11.05.05)	Date of mailing of the international search report 24 May, 2005 (24.05.05)	
Name and mailing address of the ISA/ Japanese Patent Office	Authorized officer	
Facsimile No. Telephone No. Form PCT/ISA/210 (second sheet) (January 2004)		